

Projects funded in Region 5 in FY18 through the National Fish Passage Program (NFPP)

FY2018 Totals:

Projects: 22

Total funding: \$1,050,540

Upstream river miles re-opened: 1442

Maine

Box Mills Fishway Construction, Outlet Stream (Vassalboro, ME)

The China Lake Fish Passage Initiative aims to restore fish passage from the Sebasticook River to 3939 acres of habitat in China Lake by addressing the six dams that currently block access-removing some and installing fishways at others. When completed, this effort will restore an annual run of more than 900,000 adult river herring and benefit other fish including brook trout and federally listed Atlantic salmon. This part of the Initiative will install a fishway at Box Mills Dam.

- Funding: \$100,000
- Habitat reopened: 107 stream miles, 3939 acres of lake with completed Initiative
- Species: Alewife, American shad, Atlantic salmon, American eel, sea lamprey

Culvert Replacement, Tributary to the Sandy River (Phillips, ME)

Upgrading this culvert reopened 6 miles of Atlantic salmon and brook trout habitat, restored natural sediment and wood transport regimes to the stream, and served as a demonstration site of an upgraded stream crossing with multiple benefits, including fish passage, improved water quality, improved public safety, and reduced flood risk.

- Funding: \$15,000
- Upstream river miles reopened: 6
- Species: Atlantic salmon, American eel, brook trout

Darnit Brook Culvert Replacement, Darnit Brook (Buckfield, ME)

Darnit Brook provides quality habitat for wild brook trout and Atlantic salmon. This project will replace a failed culvert with a structure that provides a safe roadway for the surrounding community and aquatic organism passage beneath the road so that fish can reach 8 additional miles of important habitat.

- Funding: \$25,000
- Upstream river miles reopened: 8
- Species: Brook trout, Atlantic salmon, American eel

Fish Ladder Construction, Togus Stream (Chelsea, ME)

Construction of a fishway at the Lower Togus Pond will provide passage to over 41 miles of stream habitat for migratory fish including alewife, American eel, sea lamprey, brook trout,

Atlantic salmon and white sucker, and provide benefits to marine mammal, seabird, and groundfish restoration efforts in the Gulf of Maine.

- Funding: \$50,000
- Upstream river miles reopened: 41
- Species: Alewife, American eel, Atlantic salmon, sea lamprey, brook trout

Ladd Dam Fishway Construction, Outlet Stream (Vassalboro, ME)

The China Lake Fish Passage Initiative aims to restore fish passage from the Sebasticook River to 3939 acres of habitat in China Lake by addressing the six dams that currently block access—removing some and installing fishways at others. When completed, this effort will restore an annual run of more than 900,000 adult river herring and benefit other fish including brook trout and federally listed Atlantic salmon. This part of the Initiative will install a fishway at Ladd Dam to provide passage to 27 miles of habitat.

- Funding: \$50,000
- Habitat reopened: 27 stream miles, 3939 acres of lake with completed Initiative
- Species: Alewife, Atlantic salmon, blueback herring, brook trout, sea lamprey, American shad

Lewy Brook Culvert to Bridge Installation, East Machias River (Princeton, ME)

By replacing an undersized culvert in a road-stream crossing with open bottom arch structure, this project restored access to approximately 8.1 miles of stream habitat in the Pocomoonshine subwatershed, an area designated as Atlantic salmon Critical Habitat. Restoring this crossing will protect and maintain the resources in the extremely popular Grand Lake stream recreational area and fix a chronic sedimentation problem.

- Funding: \$16,600
- Upstream river miles reopened: 8.1
- Species: Atlantic salmon, American eel, brook trout

Maryland

Cypress Branch Dam Removal, Cypress Branch (Millington, MD)

Cypress Branch Dam removal will remove a large earthen dam that blocks river herring from accessing 8 mainstem miles of habitat and 10 additional miles of tributary habitat.

- Funding: \$65,000
- Upstream river miles reopened: 18
- Species: Blueback herring, alewife, American eel

Massachusetts

South Middleton Dam Removal, Ipswich River (Middleton, MA)

Removal of the South Middleton Dam will reconnect 57 miles of historic spawning and nursery habitat for multiple species in the Ipswich River in Middleton, MA. The dam is classified as a significant hazard to the surrounding area, and removal will alleviate the threat of flooding or failure for the surrounding community and infrastructure.

- Funding: \$50,000
- Upstream river miles reopened: 57
- Species: Alewife, brook trout, American eel, American shad

New Hampshire

Androscoggin River Watershed Survey, Androscoggin River (Berlin, NH)

This project will assess road-stream crossings and fish communities in the Androscoggin River Watershed using standardized protocols in order to prioritize habitat restoration efforts for improving stream connectivity and infrastructure safety. In collaboration with the State of New Hampshire and several other partners, the Androscoggin River Watershed Council will hire and train professionals to help conduct these surveys and prioritize the restoration work.

- Funding: \$10,000
- Species: Brook trout

Pine Mill Dam Removal, Clark Brook (Haverhill, NH)

Removal of a high hazard mill dam will open 12 miles of habitat for brook trout and dwarf wedge mussel in Clark Brook, a direct tributary to the Connecticut River in Haverhill, NH.

- Funding: \$50,000
- Upstream river miles reopened: 12
- Species: Brook trout, dwarf wedgemussel

New York

Culvert Replacement, Tiffany Hollow Brook (Colchester, NY)

Replacement of the culvert in a Tiffany Hollow Brook road crossing with a properly sized structure will restore access to 3.7 miles of important coldwater spawning and nursery areas for brook trout.

- Funding: \$93,940
- Upstream river miles reopened: 3.7
- Species: Brook trout

Quarry Dam Removal, West Branch- Ausable River (North Elba, NY)

Removal of the Quarry dam restored fish passage and natural stream function to the entire 113 miles of the West Branch of the Ausable River. This project removed a safety hazard for boaters and anglers, and improved recreational fishing opportunities in one of the most heavily fished streams in New York.

- Funding: \$25,000
- Upstream river miles reopened: 19.5
- Species: Brook trout

Design for Gaging Weir Fish Passage, Peconic River (Riverhead, NY)

Through physical modeling and analytical evaluations, this project will develop engineering modifications or operational measures that allow for both streamflow measurement and fish passage at this in-stream weir. The results may be transferable to stream gaging weirs throughout the United States.

- Funding: \$40,000
- Species: Alewife, blueback herring, American eel

Pennsylvania

Dunbar Creek Dam Removal and Riparian Stabilization, Dunbar Creek (Dunbar, PA)

This dam removal is part of a larger effort to remove four dam remnants on Dunbar Creek, providing fish passage for brook trout, reconnecting floodplain and 44 miles of stream habitat, and improving angling access.

- Funding: \$50,000
- Upstream river miles reopened: 44
- Species: Brook trout

Vermont

Beebe Road Dam Removal and Beebe Road Culvert Replacement, East Putney River (Westminster, VT)

Removal of a dam on the East Putney River and upgrade of a nearby perched culvert at the Beebe Road crossing will reconnect over 12 miles of healthy brook trout stream and allow the entire system to be free flowing.

- Funding: \$115,000
- Upstream river miles reopened: 12
- Species: Brook trout, American eel

Ruhl Dam Removal, Cold Brook (Wilmington, VT)

Removal of the Ruhl dam improved stream habitat quality and restored access to 5.5 miles of brook trout habitat.

- Funding: \$40,000
- Upstream river miles reopened: 5.5
- Species: Brook trout

Virginia

Bolton Branch Fish Passage Barrier Removal, Bolton Branch (Huntly, VA)

US Fish and Wildlife Service, Virginia Department of Transportation, and other partners will improve a road crossing over a headwater stream of the Rappahannock River in northern Virginia to allow for fish passage, reconnect about 1 mile of intact habitat for Eastern Brook Trout, and improve road infrastructure.

- Funding: \$30,000
- Upstream river miles reopened: 1
- Species: Brook trout

Elk Garden Mill Dam Removal, Elk Garden Creek (Elk Garden, VA)

Removal of the Elk Garden dam will improve fish passage to 15 miles of habitat, improve mussel habitat, and eliminate the concerns about safety and excess sediment release associated with possible failure of the degraded dam structure.

- Funding: \$100,000
- Upstream river miles reopened: 15
- Species: Purple bean, fragile papershell, deertoe, elephant-ear, slippershell mussel, tan riffleshell, slabside pearly mussel, sheepsnose, fluted kidneyshell, little-wing pearly mussel, spectacle case, cracking pearlymussel, rough rabbitsfoot, shiny pigtoe, finerayed pigtoe, birdwing pearlymussel, snuffbox, oyster mussel, Cumberland monkeyface pearlymussel, Appalachian monkeyface pearlymussel, duskytail darter, yellowfin madtom, spotfin chub, slender chub, Cumberland bean pearlymussel, Cumberlandian combshell

Jordan Point Dam Removal, Maury River (Lexington, VA)

Removal of the Jordan Point dam will remove a fish passage barrier and a public safety and boating hazard. The project will improve habitat continuity to the headwaters, opening 1,084 miles of upstream mainstem river and tributaries to fish migration and benefitting mussel species in the area.

- Funding: \$75,000
- Upstream river miles reopened: 1084
- Species: James river spinymussel and other freshwater mussels, American eel (with eventual passage at downstream dams)

West Virginia

Survey, Assessment, and Design for Removal or Replacement of Five Barriers, West Fork of the Greenbrier River (Greenbrier watershed, WV)

The streams in the West Fork of the Greenbrier River in WV have been degraded and fragmented as a result of land management practices associated with agriculture, development, timber harvest, and post flood recovery activities. US Fish and Wildlife Service

and partners have improved habitat for brook trout in the Greenbrier watershed by decommissioning 55 miles of roads, restoring 300 acres of riparian habitat, and reconnecting and restoring 40 miles of in-stream habitat. This project will allow partners to design another five barrier removals to improve aquatic organism passage in the watershed.

- Funding: \$17,000
- Species: Brook trout, eastern hellbender, candy darter

Survey, Assessment, and Design for Removal or Replacement of Nine Barriers, North Fork-South Branch of the Potomac River (Potomac River watershed, WV)

The US Fish and Wildlife Service has been working with partners for nearly a decade to restore habitat for brook trout in the Potomac River Watershed. Hundreds of acres of riparian habitat and over 17 miles of stream have been restored, improving habitat for brook trout that had been degraded and fragmented because of land management practices. This project will support the assessment, survey, and stream design components of nine barrier removal projects for brook trout in the North Fork of the South Branch of the Potomac River in WV.

- Funding: \$33,000
- Species: Brook trout, American eel